



PCT09

## RAW SEQUENCE LISTING

DATE: 06/04/2002

PATENT APPLICATION: US/09/937,060A

TIME: 16:12:33

Input Set : A:\PF0683USNSEQLISTING.txt

Output Set: N:\CRF3\06042002\I937060A.raw

4 <110> APPLICANT: INCYTE PHARMACEUTICALS, INC.  
 5 BANDMAN, Olga  
 6 TANG, Y. Tom  
 7 YUE, Henry  
 8 HILLMAN, Jennifer L.  
 9 BAUGHN, Mariah R.  
 10 AZIMZAI, Yalda  
 11 LU, Dyung Aina M.  
 12 AU-YOUNG, Janice  
 14 <120> TITLE OF INVENTION: REGULATORS OF INTRACELLULAR PHOSPHORYLATION  
 16 <130> FILE REFERENCE: PF-0683 PCT  
 C--> 18 <140> CURRENT APPLICATION NUMBER: US/09/937,060A  
 C--> 19 <141> CURRENT FILING DATE: 2002-04-15  
 21 <150> PRIOR APPLICATION NUMBER: 60/125,593; 60/135,049; 60/143,188  
 W--> 22 <151> PRIOR FILING DATE: 1999-03-18; 1999-05-20; 1999-07-09  
 24 <160> NUMBER OF SEQ ID NOS: 28  
 26 <170> SOFTWARE: PERL Program  
 28 <210> SEQ ID NO: 1  
 29 <211> LENGTH: 482  
 30 <212> TYPE: PRT  
 31 <213> ORGANISM: Homo sapiens  
 33 <220> FEATURE:  
 34 <221> NAME/KEY: misc\_feature  
 35 <223> OTHER INFORMATION: Incyte ID No: 480457CD1  
 37 <400> SEQUENCE: 1  
 38 Met Pro Pro Ser Pro Leu Asp Asp Arg Val Val Val Ala Leu Ser  
 39 1 5 10 15  
 40 Arg Pro Val Arg Pro Gln Asp Leu Asn Leu Cys Leu Asp Ser Ser  
 41 20 25 30  
 42 Tyr Leu Gly Ser Ala Asn Pro Gly Ser Asn Ser His Pro Pro Val  
 43 35 40 45  
 44 Ile Ala Thr Thr Val Val Ser Leu Lys Ala Ala Asn Leu Thr Tyr  
 45 50 55 60  
 46 Met Pro Ser Ser Ser Gly Ser Ala Arg Ser Leu Asn Cys Gly Cys  
 47 65 70 75  
 48 Ser Ser Ala Ser Cys Cys Thr Val Ala Thr Tyr Asp Lys Asp Asn  
 49 80 85 90  
 50 Gln Ala Gln Thr Gln Ala Ile Ala Ala Gly Thr Thr Thr Thr Ala  
 51 95 100 105  
 52 Ile Gly Thr Ser Thr Thr Cys Pro Ala Asn Gln Met Val Asn Asn  
 53 110 115 120  
 54 Asn Glu Asn Thr Gly Ser Leu Ser Pro Ser Ser Gly Val Gly Ser  
 55 125 130 135

ENTERED

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56 Pro Val Ser Gly Thr Pro Lys Gln Leu Ala Ser Ile Lys Ile Ile
57                               140                145                150
58 Tyr Pro Asn Asp Leu Ala Lys Lys Met Thr Lys Cys Ser Lys Ser
59                               155                160                165
60 His Leu Pro Ser Gln Gly Pro Val Ile Ile Asp Cys Arg Pro Phe
61                               170                175                180
63 Met Glu Tyr Asn Lys Ser His Ile Gln Gly Ala Val His Ile Asn
64                               185                190                195
65 Cys Ala Asp Lys Ile Ser Arg Arg Arg Leu Gln Gln Gly Lys Ile
66                               200                205                210
67 Thr Val Leu Asp Leu Ile Ser Cys Arg Glu Gly Lys Asp Ser Phe
68                               215                220                225
69 Lys Arg Ile Phe Ser Lys Glu Ile Ile Val Tyr Asp Glu Asn Thr
70                               230                235                240
71 Asn Glu Pro Ser Arg Val Met Pro Ser Gln Pro Leu His Ile Val
72                               245                250                255
73 Leu Glu Ser Leu Lys Arg Glu Gly Lys Glu Pro Leu Val Leu Lys
74                               260                265                270
75 Gly Gly Leu Ser Ser Phe Lys Gln Asn His Glu Asn Leu Cys Asp
76                               275                280                285
77 Asn Ser Leu Gln Leu Gln Glu Cys Arg Glu Val Gly Gly Gly Ala
78                               290                295                300
79 Ser Ala Ala Ser Ser Leu Leu Pro Gln Pro Ile Pro Thr Thr Pro
80                               305                310                315
81 Asp Ile Glu Asn Ala Glu Leu Thr Pro Ile Leu Pro Phe Leu Phe
82                               320                325                330
83 Leu Gly Asn Glu Gln Asp Ala Gln Asp Leu Asp Thr Met Gln Arg
84                               335                340                345
85 Leu Asn Ile Gly Tyr Val Ile Asn Val Thr Thr His Leu Pro Leu
86                               350                355                360
87 Tyr His Tyr Glu Lys Gly Leu Phe Asn Tyr Lys Arg Leu Pro Ala
88                               365                370                375
89 Thr Asp Ser Asn Lys Gln Asn Leu Arg Gln Tyr Phe Glu Glu Ala
90                               380                385                390
91 Phe Glu Phe Ile Glu Glu Ala His Gln Cys Gly Lys Gly Leu Leu
92                               395                400                405
93 Ile His Cys Gln Ala Gly Val Ser Arg Ser Ala Thr Ile Val Ile
94                               410                415                420
95 Ala Tyr Leu Met Lys His Thr Arg Met Thr Met Thr Asp Ala Tyr
96                               425                430                435
97 Lys Phe Val Lys Gly Lys Arg Pro Ile Ile Ser Pro Asn Leu Asn
98                               440                445                450
99 Phe Met Gly Gln Leu Leu Glu Phe Glu Glu Asp Leu Asn Asn Gly
100                              455                460                465
101 Val Thr Pro Arg Ile Leu Thr Pro Lys Leu Met Gly Val Glu Thr
102                              470                475                480
103 Val Val
106 <210> SEQ ID NO: 2
107 <211> LENGTH: 190

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Input Set : A:\PF0683USNSEQLISTING.txt

Output Set: N:\CRF3\06042002\I937060A.raw

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108 <212> TYPE: PRT
109 <213> ORGANISM: Homo sapiens
111 <220> FEATURE:
112 <221> NAME/KEY: misc_feature
113 <223> OTHER INFORMATION: Incyte ID No: 563663CD1
115 <400> SEQUENCE: 2
116 Met Ser Arg Arg Arg Phe Asp Cys Arg Ser Ile Ser Gly Leu Leu
117   1           5           10           15
118 Thr Thr Thr Pro Gln Ile Pro Ile Lys Met Glu Asn Phe Asn Asn
119           20           25           30
120 Phe Tyr Ile Leu Thr Ser Lys Glu Leu Gly Arg Gly Lys Phe Ala
121           35           40           45
122 Val Val Arg Gln Cys Ile Ser Lys Ser Thr Gly Gln Glu Tyr Ala
123           50           55           60
125 Ala Lys Phe Leu Lys Lys Arg Arg Arg Gly Gln Asp Cys Arg Ala
126           65           70           75
127 Glu Ile Leu His Glu Ile Ala Val Leu Glu Leu Ala Lys Ser Cys
128           80           85           90
129 Pro Arg Val Ile Asn Leu His Glu Val Tyr Glu Asn Thr Ser Glu
130           95          100          105
131 Ile Ile Leu Ile Leu Glu Tyr Ala Ala Gly Gly Glu Ile Phe Ser
132          110          115          120
133 Leu Cys Leu Pro Glu Leu Ala Glu Met Val Ser Glu Asn Asp Val
134          125          130          135
135 Ile Arg Leu Ile Lys Gln Ile Leu Glu Gly Val Tyr Tyr Leu His
136          140          145          150
137 Gln Asn Asn Ile Val His Leu Asp Leu Lys Pro Gln Asn Ile Leu
138          155          160          165
139 Leu Ser Ser Ile Tyr Pro Leu Gly Asp Ile Lys Ile Val Asp Gly
140          170          175          180
141 Gly Met Ser Arg Lys Ile Gly Gln Cys Val
142          185          190
145 <210> SEQ ID NO: 3
146 <211> LENGTH: 455
147 <212> TYPE: PRT
148 <213> ORGANISM: Homo sapiens
150 <220> FEATURE:
151 <221> NAME/KEY: misc_feature
152 <223> OTHER INFORMATION: Incyte ID No: 1425842CD1
154 <400> SEQUENCE: 3
155 Met Ser Ser Leu Gly Ala Ser Phe Val Gln Ile Lys Phe Asp Asp
156   1           5           10           15
157 Leu Gln Phe Phe Glu Asn Cys Gly Gly Ser Phe Gly Ser Val
158           20           25           30
159 Tyr Arg Ala Lys Trp Ile Ser Gln Asp Lys Glu Val Ala Val Lys
160           35           40           45
161 Lys Leu Leu Lys Ile Glu Lys Glu Ala Glu Ile Leu Ser Val Leu
162           50           55           60
163 Ser His Arg Asn Ile Ile Gln Phe Tyr Gly Val Ile Leu Glu Pro

```

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164	65	70	75
165	Pro Asn Tyr Gly Ile Val Thr Glu Tyr Ala Ser Leu Gly Ser Leu		
166	80	85	90
167	Tyr Asp Tyr Ile Asn Ser Asn Arg Ser Glu Glu Met Asp Met Asp		
168	95	100	105
169	His Ile Met Thr Trp Ala Thr Asp Val Ala Lys Gly Met His Tyr		
170	110	115	120
171	Leu His Met Glu Ala Pro Val Lys Val Ile His Arg Asp Leu Lys		
172	125	130	135
173	Ser Arg Asn Val Val Ile Ala Ala Asp Gly Val Leu Lys Ile Cys		
174	140	145	150
175	Asp Phe Gly Ala Ser Arg Phe His Asn His Thr Thr His Met Ser		
176	155	160	165
177	Leu Val Gly Thr Phe Pro Trp Met Ala Pro Glu Val Ile Gln Ser		
178	170	175	180
179	Leu Pro Val Ser Glu Thr Cys Asp Thr Tyr Ser Tyr Gly Val Val		
180	185	190	195
181	Leu Trp Glu Met Leu Thr Arg Glu Val Pro Phe Lys Gly Leu Glu		
182	200	205	210
183	Gly Leu Gln Val Ala Trp Leu Val Val Glu Lys Asn Glu Arg Leu		
184	215	220	225
185	Thr Ile Pro Ser Ser Cys Pro Arg Ser Phe Ala Glu Leu Leu His		
186	230	235	240
187	Gln Cys Trp Glu Ala Asp Ala Lys Lys Arg Pro Ser Phe Lys Gln		
188	245	250	255
189	Ile Ile Ser Ile Leu Glu Ser Met Ser Asn Asp Thr Ser Leu Pro		
190	260	265	270
191	Asp Lys Cys Asn Ser Phe Leu His Asn Lys Ala Glu Trp Arg Cys		
192	275	280	285
193	Glu Ile Glu Ala Thr Leu Glu Arg Leu Lys Lys Leu Glu Arg Asp		
194	290	295	300
195	Leu Ser Phe Lys Glu Gln Glu Leu Lys Glu Arg Glu Arg Arg Leu		
196	305	310	315
197	Lys Met Trp Glu Gln Lys Leu Thr Glu Gln Ser Asn Thr Pro Leu		
198	320	325	330
199	Leu Leu Pro Leu Ala Ala Arg Met Ser Glu Glu Ser Tyr Phe Glu		
200	335	340	345
201	Ser Lys Thr Glu Glu Ser Asn Ser Ala Glu Met Ser Cys Gln Ile		
202	350	355	360
203	Thr Ala Thr Ser Asn Gly Glu Gly His Gly Met Asn Pro Ser Leu		
204	365	370	375
205	Gln Ala Met Met Leu Met Gly Phe Gly Asp Ile Phe Ser Met Asn		
206	380	385	390
207	Lys Ala Gly Ala Val Met His Ser Gly Met Gln Ile Asn Met Gln		
208	395	400	405
209	Ala Lys Gln Asn Ser Ser Lys Thr Thr Ser Lys Arg Arg Gly Lys		
210	410	415	420
211	Lys Val Asn Met Ala Leu Gly Phe Ser Asp Phe Asp Leu Ser Glu		
212	425	430	435

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Output Set: N:\CRF3\06042002\I937060A.raw

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213 Gly Asp Asp Asp Asp Asp Asp Asp Gly Glu Glu Glu Asp Asn Asp
214                               440                     445         450
215 Met Asp Asn Ser Glu
216                               455
219 <210> SEQ ID NO: 4
220 <211> LENGTH: 485
221 <212> TYPE: PRT
222 <213> ORGANISM: Homo sapiens
224 <220> FEATURE:
225 <221> NAME/KEY: misc_feature
226 <223> OTHER INFORMATION: Incyte ID No: 2349047CD1
228 <400> SEQUENCE: 4
229 Met Ala Lys Gly Gly Ile Phe Pro Arg Pro Arg Cys Asp Ser Ser
230   1                               5                     10         15
231 Ser Leu Leu Glu Cys Arg Lys Ala Ile Ser Arg Glu Val Lys Ala
232                               20                     25         30
233 Met Ala Ser Leu Asp Asn Glu Phe Val Leu Arg Leu Glu Gly Val
234                               35                     40         45
235 Ile Glu Lys Val Asn Trp Asp Gln Asp Pro Lys Pro Ala Leu Val
236                               50                     55         60
237 Thr Lys Phe Met Glu Asn Gly Ser Leu Ser Gly Leu Leu Gln Ser
238                               65                     70         75
239 Gln Cys Pro Arg Pro Trp Pro Leu Leu Cys Arg Leu Leu Lys Glu
240                               80                     85         90
241 Val Val Leu Gly Met Phe Tyr Leu His Asp Gln Asn Pro Val Leu
242                               95                    100        105
243 Leu His Arg Asp Leu Lys Pro Ser Asn Val Leu Leu Asp Pro Glu
244                               110                   115        120
245 Leu His Val Lys Leu Ala Asp Phe Gly Leu Ser Thr Phe Gln Gly
246                               125                   130        135
247 Gly Ser Gln Ser Gly Thr Gly Ser Gly Glu Pro Gly Gly Thr Leu
248                               140                   145        150
249 Gly Tyr Leu Ala Pro Glu Leu Phe Val Asn Val Asn Arg Lys Ala
250                               155                   160        165
251 Ser Thr Ala Ser Asp Val Tyr Ser Phe Gly Ile Leu Met Trp Ala
252                               170                   175        180
253 Val Leu Ala Gly Arg Glu Val Glu Leu Pro Thr Glu Pro Ser Leu
254                               185                   190        195
255 Val Tyr Glu Ala Val Cys Asn Arg Gln Asn Arg Pro Ser Leu Ala
256                               200                   205        210
257 Glu Leu Pro Gln Ala Gly Pro Glu Thr Pro Gly Leu Glu Gly Leu
258                               215                   220        225
259 Lys Glu Leu Met Gln Leu Cys Trp Ser Ser Glu Pro Lys Asp Arg
260                               230                   235        240
261 Pro Ser Phe Gln Glu Cys Leu Pro Lys Thr Asp Glu Val Phe Gln
262                               245                   250        255
263 Met Val Glu Asn Asn Met Asn Ala Ala Val Ser Thr Val Lys Asp
264                               260                   265        270
265 Phe Leu Ser Gln Leu Arg Ser Ser Asn Arg Arg Phe Ser Ile Pro

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/937,060A

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Output Set: N:\CRF3\06042002\I937060A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:16; N Pos. 959,1029,1159